ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	nterial Compo opyright 2005. IPC, Bannoc onternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	level p	arts, the	declaratio	n encor	mpasses	all lower l	evel mate	erials for	which th	e item is an assembly be manufacturer has eclaration.	
1752-2 1.1	1	Web Site for Informat://www.ipc.org/IPC-1	rd	Form Type * Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Inform									
Supplier Information																
Company Name * Company Unique ID				Unique ID Authority			Response Date *				esponse Document ID					
STMicroelectronics				2012-09-04				H0MG*7	MG*766XXXX							
Contact Name *		Title - Contact		Phone - Contact *			Email - Contact *				Duplicate Contact -> Authorized Representative					
Authorized Representative *		Title - Representative	е	Phone - Rep	Email - Representative *			Supplier Comments or URL for Additional Information								
Laurent Tosi		MMS Central Packa	ging	+33 442 685	laurent.tosi@st.com											
Requester Item Number		Mfr Item Number		Mfr Item Name	Effective Date		Version	ersion Manufa		ite V	Veight *	UC	M	Unit Type		
				UFQFPN 5X5	JFQFPN 5X5X0.55 32L 0.5 MN		09-04	A StatC		hipPac 90.04		0.04	mg	g	Each	
Alternate Recommend	dation						Alternate Item Co			omments					•	
Manufacturing Proce	ss In	formation														
Terminal Plating / Grid Array Material Terminal B			Base Alloy J-STD-020 MSL Ra			ting Peak Process Body Tempe			ature Max Time at Peak Temp			perature Number of Reflow Cycles				
			CU Alloy	у 3			260 (;	260 se			econds 3		
Comments Ecopack 2 compliant: n	neans	Br-Cl & Sb oxide fro	ee. DISCL	AIMER: While	e STMicroelectro	nics ha	as endea	vored to	provid	le inform	nation wh	ich is ac	curate a	ınd up t	o date, this docun	

Save the fields in Import fields from a Clear all of the Lock the fields on this **Export Data** Import Data Reset Form Lock Supplier Fields this form to a file file into this form fields on this form form to prevent changes **RoHS Material Composition Declaration Declaration Type *** Detailed Rohs Directive Rohs Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenvls (PBB). Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium 2002/95/EC Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2002/95/EC and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance in excess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply. 1 - Item(s) does not contain RoHS restricted substances per the definition above Supplier Acceptance * Accepted **RoHS Declaration *** Exemptions: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.

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Dec	laration	Siai	nature	١

Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.

Supplier Digital Signature

Homogeneous Material Composition Declaration for Electronic Products

Subltem Instructions: The presence of any JIG Level A or B substances must be declared. [1] indicate the subpart in which the substance is located, [2] provide a description of the homogeneous material [3], enter the weight of the homogeneous material.

Substance Instructions: [A] select the Level (JIG A, JIG B, Requester or Supplier) [B] select the substance category (JIG or Requester) or enter a value (Supplier). [C] select the substance (JIG) or enter the substance and CAS (Other). [D] select a RoHS exemption, if applicable [E] enter the weight of the substance or the PPM concentration [F] Optionally enter the positive (+) and negative (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 sigma range of distribution unless otherwise noted).

Line Functions: +I Inserts a New Item /SubItem +M Inserts a new Material +C Inserts a new Substance Category +S Inserts a new Substance - Deletes the element line

Item/SubItem			Homogeneous	Weight	Unit of		Level	Substance Category			Substance	CAS	Evennt	Weight	0	Tolerance		PPM
	Name		Material	Weight	Measure		Level	Substance Category			Substance	CAS	Exempt	weight	Measure	-	+	
+1 -1	H0MG*766XXXX	+M -M	Silicon Die	1.745	mg	+C -C	Supplier	Silicon Die	+S	-S	Silicon	7440-21-3		1.745	mg			1,000,0
		+M -M	Die Attach Epox	0.343	mg	+C -C	Supplier	Glue	+S	-S	Silver	7440-22-4		0.236	mg		(688,04
			-						+S	-S	Proprietary Epoxy resin	-		0.059	mg			172,01
									+S	-S	Gamma Butyrolactone	96-48-0		0.016	mg			46,647
									+S	-S	Proprietary Amine	-		0.016	mg			46,647
									+S	-s	Proprietary Metal Oxide	-		0.016	mg			46,647
		+M -M	Encapsulation	40.879	mg	+C -C	Supplier	Molding compound	+S	Ş	Silica fused	60676-86-0		35.17	mg			860,34
									+S	-s	Proprietary Epoxy resin	-		1.241	mg			30,358
									+S	-s	Proprietary Epoxy resin	-		1.241	mg			30,358
									+S	-s	Proprietary Phenol resi	-		1.241	mg			30,358
									+S	-s	Proprietary Phenol resi	-		1.241	mg			30,358
									+S	-s	Proprietary Metal Hydro	-		0.621	mg			15,191
									+S	-s	Carbon Black	1333-86-4		0.124	mg			3,033
		+M -M	Bonding Wire	0.524	mg	+C -C	Supplier	Wire	+S	Ş	Gold	7440-57-5		0.524	mg			1,000,0
		+M -M	Leadframe	44.449	mg	+C -C	Supplier	Alloy	+S	Ş	Copper	7440-50-8		42.583	mg		9	958,00
									+S	-s	Silicon	7440-21-3		0.322	mg			7,244
									+S	-s	Magnesium	7439-95-4		0.078	mg			1,755
									+S	-s	Silver	7440-22-4		0.044	mg			990
						+C -C	В	Nickel (external applic	+ S	-s	Nickel	7440-02-0		1.422	mg			31,992
		+M -M	Finishing	2.1	mg	+C -C	Supplier	Connection coating	+S	-S	Tin	7440-31-5		2.1	mg			1,000,0